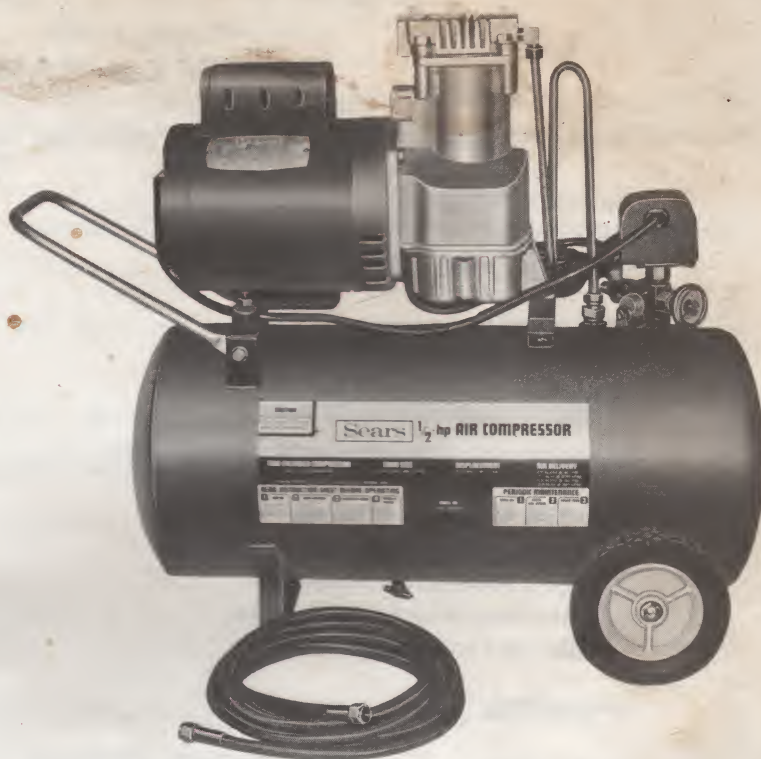


Sears

OWNERS MANUAL

MODEL NOS.
919.176050
919.176110

IMPORTANT:
Read the Safety
Guidelines Before
Operating



AIR COMPRESSOR

DESCRIPTION ASSEMBLY OPERATION MAINTENANCE REPAIR PARTS

Record in the spaces provide below the model number and code number of this air compressor and the motor manufacturer. The model number can be found on the label on the front of the air tank. The code number can be found on the foil label on the rear of the air tank and the motor manufacturer on the motor data plate.

Model No. _____

Code No. _____

Motor Mfr. _____

Retain these numbers for future reference.

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FULL ONE YEAR WARRANTY AIR COMPRESSOR

If this air compressor fails due to a defect in material or workmanship within one year from the date of purchase, return it to the nearest Sears Service Center or store throughout the United States and Sears will repair it, free of charge.

If this air compressor is used for commercial or rental purposes, the warranty will apply for thirty days from date of purchase.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Sears Tower, BSC 41-3, Chicago, IL 60684

SAFETY GUIDELINES

This manual contains information that is important for you to know and understand.

This information relates to YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS.

To help you recognize this information, we use the following symbols. Please read the manual and pay attention to those sections.

WARNING

IMPORTANT INFORMATION FOR PREVENTING INJURY OR LOSS OF LIFE.

CAUTION

Information for preventing damage to equipment.

Note

Information that you should pay special attention to.

WARNING**PLEASE READ THE FOLLOWING CHART.**

AREA	HAZARD	SAFEGUARDS
Indicates where a hazard can occur.	Indicates what can happen if precautions are not observed.	Indicates how to avoid the hazard and what special protective clothing, equipment, and precautions will be used.
Moving Parts	Unit cycles automatically when power is ON. During service or repair activities, this automatic cycling may cause a hazard.	Always unplug the unit before attempting repair or maintenance of the compressor. Also make sure the pressure is released from the compressor and air tank.
Hot Parts	Air compressors get hot when running. Serious burns may result if touched.	Never touch the compressor, tubing, or motor during or immediately after operation of the compressor.
Air Tank	Air pressure or mechanical loads that are higher than design loads may cause the tank to rupture. Changes to the air tank structure will cause the tank to weaken. Tank rupture or explosion may occur.	Do not adjust, remove, or defeat the safety valve. Check the valve from time to time by pulling the ring on the valve. If the valve is stuck or does not operate smoothly, it must be replaced. Do not adjust, remove, or defeat the pressure switch. Never use a motor with higher horsepower rating than the one supplied. Never drill into, weld, or change the tank in any way.
Electrical Shock	This unit is powered by 120 volts.	Always unplug unit prior to doing any maintenance or repair. Never use the unit outdoors when it is raining. Always plug the cord into an electrical outlet with the specified voltage and adequate fuse protection.

AREA	HAZARD	SAFEGUARDS
toxic Vapors	Compressed air from this unit may contain poisonous carbon monoxide. Certain sprayed materials such as paints, weed killer, sand, insecticides, etc., may be harmful if used in a closed area or if inhaled.	Never directly inhale the compressed air produced by this unit. Be certain to read labels when spraying paints or poisons. Use a mask or respirator whenever there is a chance that you might inhale anything that you are spraying. Read all instructions so that you know that your mask will protect you from what you are spraying.
Compressed Air	Compressed air may propel dirt, metal shavings, etc. and result in possible injury.	Never point any nozzle or sprayer toward a person or any part of the body. Always wear safety goggles or glasses when spraying.

SPECIFICATION CHART

Model No.	919.176050	919.176110
HP	1/2	1
Displacement SCFM	5.9	8.9
Bore	2-3/4"	2-3/4"
Stroke	1/2"	3/4"
Voltage Single-Phase	110-120	110-120
Minimum Branch Circuit Requirement	15 amp	15 amp
Fuse Type	slow-blow fuse	slow-blow fuse
Maximum Amperage	10.3	14.8
Air Tank Capacity	7-1/2 gal	12 gal
Approximate Cut-in Pressure	70 psig	70 psig
Approximate Cut-out Pressure	100 psig	100 psig
SCFM at 40 psig	2.5	5.0
90 psig	.9	3.2

SCFM (Standard Cubic Feet per Minute): Unit of measure of air delivery.

SLM (Standard Liters per Minute): Metric unit of measure of air delivery.

PSIG (Pounds per Square Inch Gauge): Unit of measure of pressure.

kPa (Kilo Pascals): Metric unit of measure of pressure.

THIS MANUAL IS DESIGNED TO MAKE IT AS EASY AS POSSIBLE FOR YOU TO SET UP, OPERATE AND MAINTAIN YOUR NEW AIR COMPRESSOR

GENERAL INFORMATION

You have purchased a compressor outfit consisting of a 1 cylinder single-stage air compressor with air tank, air hose assembly, wheels and handle. You will also find an air chuck and a helpful "Power Painting With Sprayers" booklet plus "Air Tool Guide."

This unit can be used for operating a caulking gun, grease gun, air brush, sandblaster, air tools, etc., or inflating tires and plastic toys, spraying weed killer, insecticides, etc. An air pressure regulator is usually necessary for most of these applications. This can be purchased from most larger Sears stores or through the Sears General Catalog or Power Tool Catalog.

GENERAL DESCRIPTION OF OPERATION

To compress air, the piston moves up and down in the cylinder. On the downstroke, air is drawn in through the air intake valve. The exhaust valve remains closed. On the upstroke of the piston, air is compressed. The intake valve closes and compressed air is forced out through the exhaust valve, through the check valve and into the air tank. Working air is not available until the compressor has raised the air tank pressure above that required at the air outlet.

ASSEMBLY INSTRUCTIONS

Tools Needed For Assembly

Tools needed are: (1) two 9/16" socket or open end wrenches for attaching the wheels, and (2) two 7/16" socket or open end wrenches for attaching the handle.

Attaching Wheels and Handle

WARNING

THE WHEELS AND HANDLE DO NOT PROVIDE ADEQUATE CLEARANCE, STABILITY OR SUPPORT FOR PULLING THE UNIT UP OR DOWN STAIRS AND STEPS. THE UNIT MUST BE LIFTED OR PUSHED UP A RAMP.

See illustration on page 8 for attaching wheels (34) and handle (40). The nuts and bolts can be found in a plastic bag which is enclosed with the Owner's manuals, air hose, etc. Refer to the illustration, page 8, Key No's. 35, 36, 37 and 41.

CAUTION

It may be necessary to brace or support one end of the outfit when attaching the wheels because the outfit will have a tendency to tip over before wheels are attached.

1. Attach the handle to the inside of the motor saddle using two cap screws (37) and hex nuts (41) provided.
2. Remove the protective paper strip from the adhesive backed rubber foot strip (39). Attach the rubber foot strip to the bottom of the tank leg. Press firmly into place.
3. Attach one wheel (34) to each side of the outfit. Use one shoulder bolt (35) and one hex lock nut (36) for each wheel. Tighten securely.

Startup Procedures

CAUTION

All units are shipped without oil. Serious damage may result if the following break-in instructions are not closely followed. The only time this operation must be performed is when the unit is first put in service.

Place unit on a level surface. Remove oil fill plug (55) and slowly add 20 weight detergent or nondetergent type oil until it is even with the top of the oil fill hole. Other oil such as 10W30 premium oil is acceptable. Under winter-type conditions use SAE 10W oil. (Crankcase oil capacity is 7 fluid ounces.) Replace oil fill plug (55). Plug the compressor into the correct power source. Open the manifold outlet valve (30) by turning handle clockwise fully to permit air to escape preventing air pressure buildup in the air tank. Start the compressor by moving the OFF/AUTO lever on the pressure switch (27) to the AUTO position. **RUN THE COMPRESSOR 30 MINUTES IN THIS NO-LOAD CONDITION TO LUBRICATE THE PISTON AND BEARINGS.** Shut off air with manifold outlet valve (turn handle counterclockwise) and the unit is ready for use. Connect the air hose to the manifold air outlet (29). See figure 2.

OPERATION

Manifold

The manifold (30) is located on the top of the unit near the end opposite the handle. On the manifold is the pressure switch (27), pressure gauge (31) and safety valve. The gauge shows the air tank pressure. See figure 1.

Pressure Switch

WARNING

PRESSURE LOADS BEYOND DESIGN LIMITS MAY CAUSE TANK RUPTURE OR EXPLOSION. PRESSURE SWITCH OPERATION IS RELATED TO MOTOR HP, TANK RATING AND SAFETY VALVE SETTING. DO NOT ATTEMPT TO ADJUST, REMOVE, OR DEFEAT THE PRESSURE SWITCH, OR CHANGE AND MODIFY ANY PRESSURE CONTROL RELATED DEVICE.

The pressure switch (27) starts the motor when the air tank pressure drops below the factory set cut-in pressure and stops the motor when the air tank pressure reaches the factory set cut-off pressure. See specification chart, page 5.

Safety Valve

WARNING

OVER-PRESSURIZATION OF THE AIR TANK MAY CAUSE TANK RUPTURE OR EXPLOSION. THE OUTFIT IS PROTECTED FROM THE OVER-PRESSURIZATION BY A SAFETY VALVE. DO NOT ELIMINATE, MAKE ADJUSTMENTS OR SUBSTITUTIONS TO THIS DEVICE.

The pressure switch (27) is pre-set to shut off the motor automatically at the maximum operating pressure. If the pressure switch does not shut off the outfit at its cut-off pressure setting, the safety valve will protect against high pressure by "popping" at its pre-set pressure.

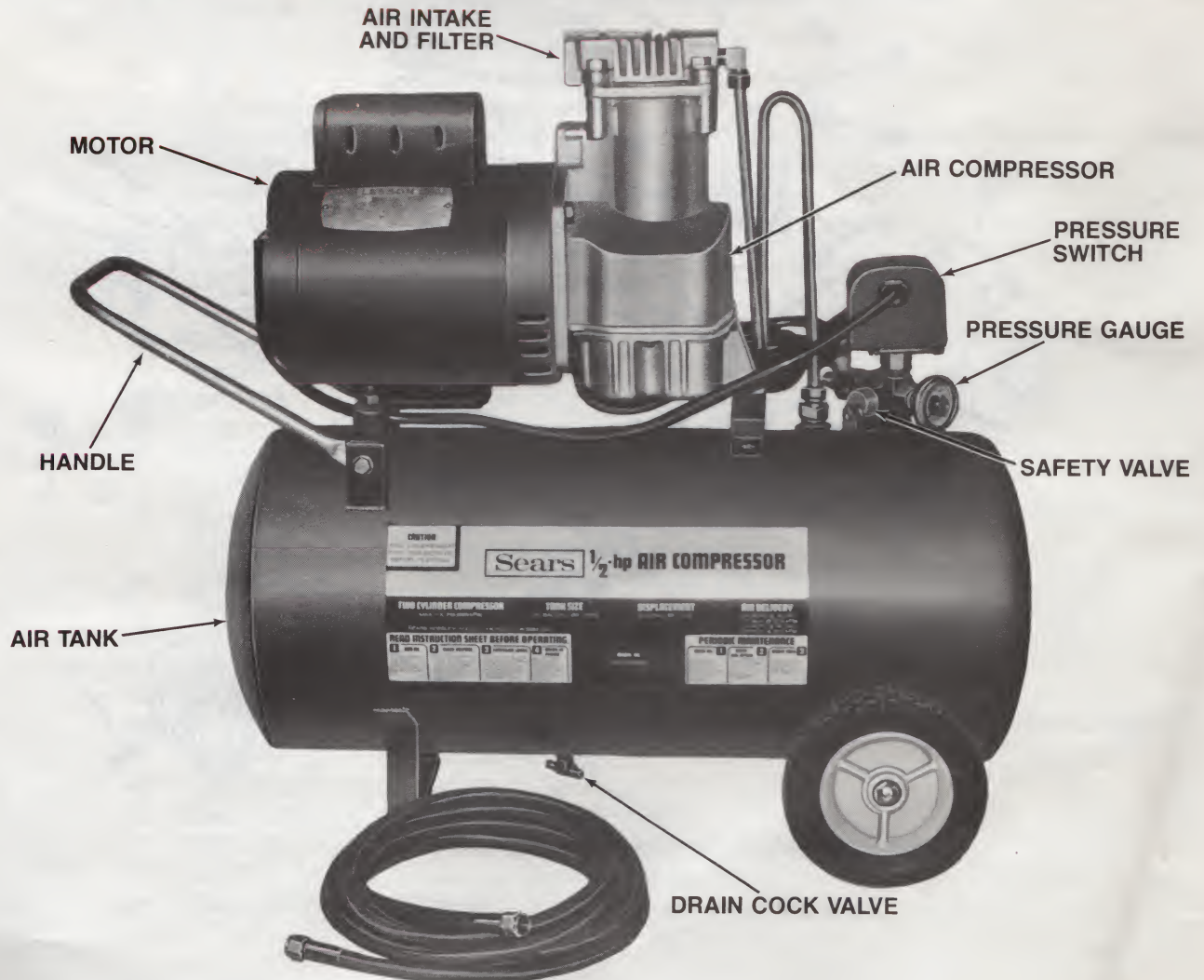
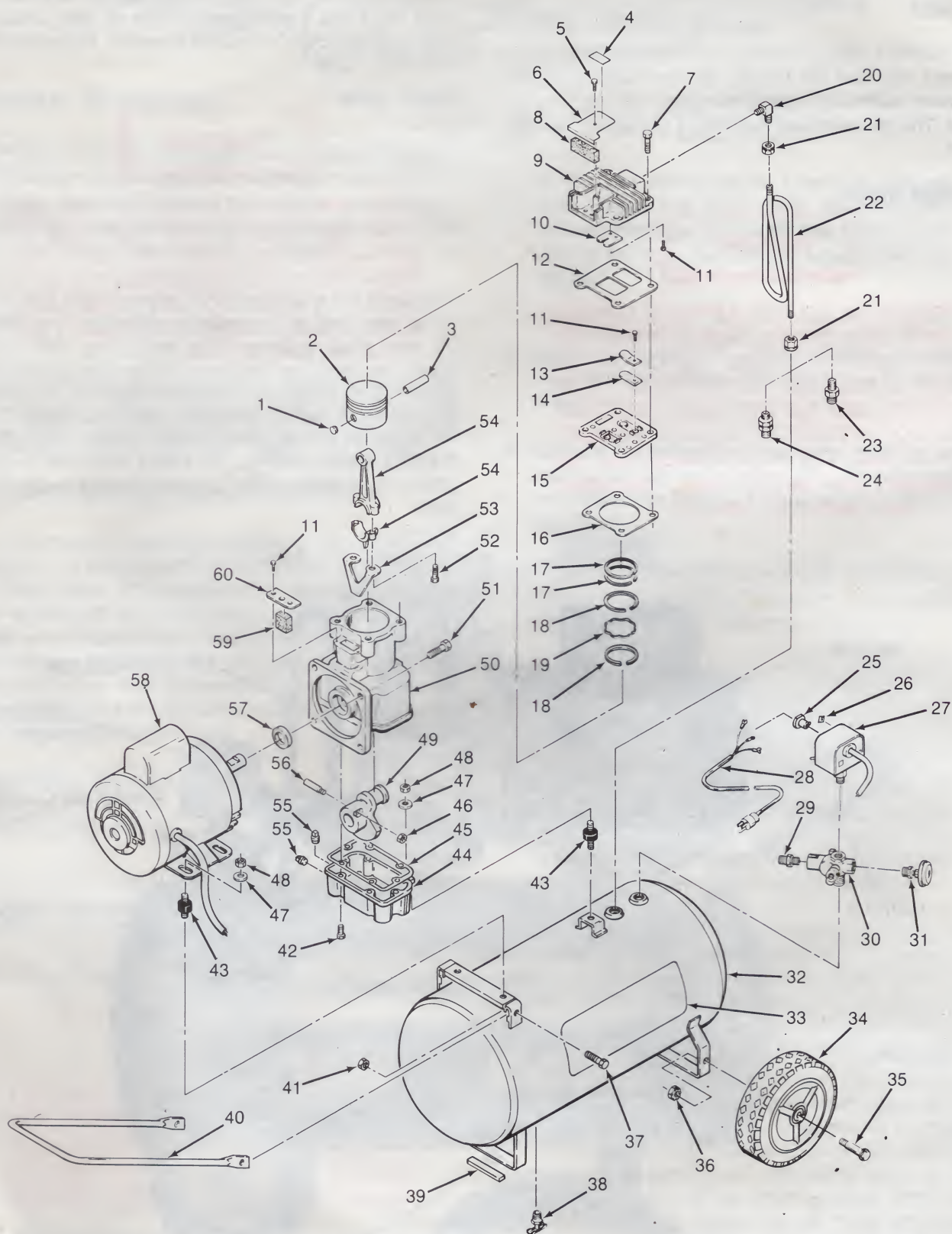


Figure 1

Air Compressor



PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION
1	CAC-207	Piston pin plug (2 used)
2	265-15	Piston
3	265-19	Piston pin
4	LA-1575	Label
5	SSF-935	Screw #8-32 x 3/8"
6	CAC-126	Intake cover
7	SSF-955	Screw 3/8-16 x 1-1/2" (4 used)
* 8	CAC-145	Filter felt
9	CAC-116	Head
* 10	CAC-35	Intake flapper valve
* 11	SSF-9821	Screw (5 used)
* 12	CAC-129	Head gasket
13	CAC-136	Restrictor plate
* 14	CAC-26	Exhaust flapper valve
15	CAC-144	Valve plate
* 16	CAC-147	Valve plate gasket
* 17	265-195-1	Compression ring (2 used) (Model 919.176050)
* 17A	2650-195	Compression ring (2 used) (Model 919.176110)
* 18	265-191-1	Oil ring (2 used)
* 19	265-192-1	Oil ring expander
20	SSP-6429	Elbow connector
21	STD575037	3/8" Nut (2 used)
	STD575038	3/8" Ferrule (2 used)
22	CAC-130	Outlet tube
23	CAC-476	Check valve (Model 919.176050)
24	CAC-452	Check valve/unloader (Model 919.176110)
25	SSW-7367	Strain relief (2 used)
26	CAC-203	Ground clip (2 used)
27	CAC-449	Pressure switch
28	CAC-472	Cord assembly
29	H-2099	Connector
30	CAC-158	Manifold
31	C-GA-332	Pressure gauge
32	TA-4023	Air receiver (Model 919.176050)
	TA-4011	Air receiver (Model 919.176110)
33	LA-1594	Label-tank (Model 919.176050)
	LA-1595	Label-tank (Model 919.176110)
34	CAC-453	6" Wheel (2 used) (Model 919.176050)
	CAC-410	8" Wheel (2 used) (Model 919.176110)
35	CAC-60	Shoulder bolt (2 used)
36	SSF-8080-ZN	Hex nut (2 used)
37	SS-2-ZN	Cap screw (2 used)
38	SS-2707	Drain cock valve (1/4")
39	SUDL-6-1	Rubber foot strip
40	CAC-198	Handle
41	SS-655-ZN	Hex nut (2 used)
42	SSF-968	Thread forming screw #10-32 x 5/8" (6 used)
43	CAC-181	Vibration mount (3 used)
44	CAC-173	Oil pan

*See page 10 for parts ordering information.

PARTS LIST (Continued)

KEY NO.	PART NUMBER	DESCRIPTION
*45	CAC-125	Oil pan gasket
*46	SSF-8114	Flanged lock nut
47	SS-6506-CD	Washer (3 used)
48	SS-656-PO	Hex nut (3 used)
*49	CAC-133	Eccentric (Model 919.176050)
*49A	CAC-114	Eccentric (Model 919.176110)
*50	CAC-123	Crankcase (Model 919.176050)
*50A	CAC-124	Crankcase (Model 919.176110)
*51	SS-10047	Cap screw (4 used)
52	SSF-927	Screw (2 used)
53	CAC-150	Oil dipper
54	265-410	Connecting rod assembly (includes 2 SSF-927 screws)
55	SSP-1413	Oil fill/drain plug (1/4")
*56	CAC-148	Locking pin
*57	CAC-154	Oil seal
*58	MO-5314	Motor 1/2-HP (Model 919.176050)
*58A	MO-6030	Motor 1-HP (Model 919.176110)
*59	CAC-146	Vent filter
60	CAC-192	Vent cover plate

NOT ILLUSTRATED

SSH-8	Air chuck
30-16162	Air hose assembly (1/4" x 15')
SI-30-09-4	Owner's manual
630-01	"Power Painting with Sprayer" booklet

*Parts Ordering Information

Key No. 8, 12, 16, 45, 59 available as individual parts and part of kit KK-4336.
 Key No. 17, 18, 19 only available as part of ring kit KK-4335 (Model 919.176050).
 Key No. 17A, 18, 19 only available as part of ring kit KK-4337 (Model 919.176110).
 Key No. 10, 11, 14 only available as part of valve kit KK-4338.
 Key No. 46, 49, 50, 51, 56, 57, 58 only available as part of Kit KK-4340 (Model 919.176050).
 Key No. 46, 49A, 50A, 51, 56, 57, 58A only available as part of Kit KK-4341 (Model 919.176110).

**ACCESSORIES FOR USE WITH SEARS COMPRESSORS ARE AVAILABLE THROUGH
 THE CURRENT GENERAL SALES CATALOG OR AT FULL LINE SEARS STORES.**

Motor

The motor has an automatic thermal overload protector. If the motor overheats for any reason, the overload protector will shut off the motor. The motor will automatically restart after the motor cools to an acceptable temperature.

Note

If the overload protector shuts the motor off frequently, check for a possible voltage problem. Low voltage can also be suspected when:

1. The motor does not develop full power or speed.
2. Fuses blow out when starting motor.
3. Lights dim and remain dim when motor is started.

Note

Avoid using long extension cords. They can cause a power loss to the motor. Add extra air hose instead of extension cords.

If an extension cord must be used, follow the recommendation listed below using a 3-wire extension cord.

Cord Length	Minimum Wire Size
0-50 Feet	12 gauge

MAINTENANCE

Replacing Air Intake Filter

A dirty air intake filter will not allow the compressor to operate at full capacity. When the intake filter becomes dirty, oily, or covered with paint overspray, replace it. Do not operate the compressor with the air intake filter removed. To replace the filter, use needle nosed pliers and pull or pry the old filter out. Replace with new. Refer to figure 1.

Checking Safety Valve

WARNING

OVER-PRESSURIZATION CAUSING TANK RUPTURE OR EXPLOSION MAY OCCUR IF THE SAFETY VALVE DOES NOT WORK PROPERLY. OCCASIONALLY PULL THE RING ON THE SAFETY VALVE TO MAKE SURE THAT THE VALVE OPERATES FREELY. IF THE VALVE IS STUCK OR DOES NOT OPERATE SMOOTHLY, IT MUST BE REPLACED.

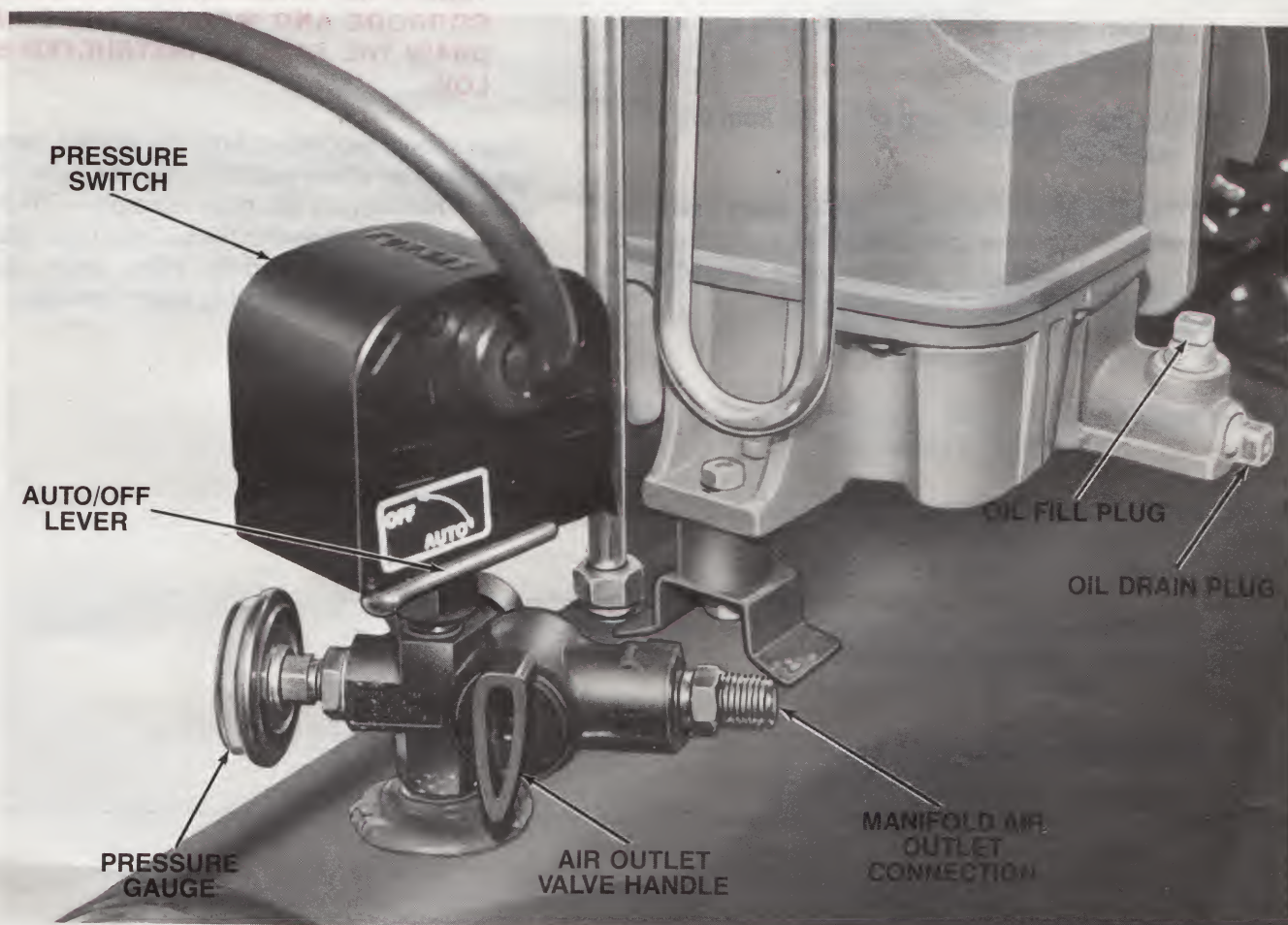


Figure 2

Checking and Changing Oil

CAUTION

Overfilling with oil will cause premature compressor failure. Do not overfill.

Check oil level in the crankcase before each use. The oil level should be even with the top of the fill hole and must not be allowed to be lower than 1/4" from the top at any time. The oil in the oil pan (44) should be changed after every 100 hours of operation. To drain the oil, remove the oil drain plug (55) and collect the oil in a suitable container. Be sure to replace the plug securely before adding new oil. Use any 20 weight detergent or nondetergent oil (crankcase oil capacity is 7 fluid ounces). Other oil such as 10W30 premium oil is acceptable. Under winter-type conditions use SAE 10W oil.

Check Valve Inspection and Replacement

Removal of the check valve (23 or 24) for inspection and, perhaps, replacement is necessary if tank pressure will not build up. Use the following procedure to inspect and clean or replace the check valve.

1. Loosen the top and bottom nuts (21) and remove the outlet tube (22).
2. Unscrew the check valve (23 or 24) from the air receiver (32).
3. Check that the valve disc moves freely inside the valve and that the spring holds the disc in the upper or closed position. The valve may be cleaned with a solvent or replaced as is necessary.

4. Install the new valve or reinstall the cleaned valve by reversing the above procedure.

Location of Air Compressor

Locate the unit in a dry, clean, cool and well ventilated area. The compressor head is designed with fins which allow for proper cooling. Clean or blow off fins and any other parts of the compressor that collect dust or dirt. A clean compressor runs cooler and provides longer service. Do not place rags, containers or other material on top of the compressor which would obstruct ventilation openings necessary for proper compressor operating temperature. If humidity is high, a Sears air filter and separate adapter can be installed to remove excess moisture. Follow the instructions packaged with the air filter for proper installation.

Draining Water From Air Tank

WARNING

WATER WILL CONDENSE IN THE AIR TANK. IF NOT DRAINED, THE WATER WILL CORRODE AND WEAKEN THE TANK. DRAIN THE TANK AS INSTRUCTED BELOW.

Water should be drained from the air tank periodically depending on where and how often the outfit has been used. If humidity is high, drain more often. To drain the water that has gathered in the air tank, open drain cock valve (38) and allow to drain. When empty, close the valve tightly before operating the compressor.

TROUBLESHOOTING GUIDE

WARNING

PERFORMING TROUBLESHOOTING OR REPAIRS MAY EXPOSE VOLTAGE SOURCES, MOVING PARTS, OR COMPRESSED AIR SOURCES. PERSONAL INJURY MAY OCCUR IF EXPOSED; PRIOR TO ATTEMPTING ANY TROUBLESHOOTING OR REPAIRS, THE COMPRESSOR MUST BE DISCONNECTED FROM THE POWER SOURCE.

PROBLEM	CAUSE	CORRECTION
Motor Will Not Run	Motor overload protection switch has tripped.	Let motor cool off and overload switch will automatically reset.
	Fuse blown or circuit breaker tripped.	Check fuse box for blown fuse and replace as necessary or reset circuit breaker. Do not use a fuse or circuit breaker with a rating that is higher than what is specified for your particular branch circuit. (See Specification Chart, page 5.)
	Wrong gauge wire in extension cord.	Check for proper gauge wire. Refer to wire size recommendation under Motor Section of this manual.
	Tank pressure exceeds pressure switch cut-in pressure.	Compressor motor will start automatically when tank pressure drops below cut-in pressure of pressure switch.
	Check valve stuck.	Remove and clean or replace valve (do not overtighten).
	Loose electrical connections.	Check wiring connections inside pressure switch. Pressure switch cover can easily be removed by lifting cover.
	Capacitor on the motor.	Return to Sears Service Center to check and replace if necessary.
	Faulty motor.	Unless motor is visibly damaged, remove motor and pump assembly and have it checked at a local Sears Service Center.
Air Leaks	Tube or hose fittings loose.	Tighten fittings with audible leak and check fittings under pressure with soapy water solution (do not overtighten).
	Defective check valve.	Remove and clean or replace valve (do not overtighten).

TROUBLESHOOTING GUIDE (Continued)

PROBLEM	CAUSE	CORRECTION
Air Leaks (Continued)	Leak at welds.	<div style="border: 2px solid red; padding: 5px; display: inline-block; color: red; font-weight: bold;">WARNING</div> DO NOT DRILL INTO, WELD OR OTHERWISE MODIFY AIR TANK OR TANK WILL BE WEAKENED. TANK MUST BE REPLACED.
	Air leak in safety valve.	Operate safety valve manually by pulling on ring. If valve still leaks, it should be replaced.
	O rings in the manifold air outlet valve not seated completely.	Operate outfit to achieve maximum tank air pressure, then open and close manifold air outlet valve 5 times. Air flow through the valve will seat the O rings.
Restricted Air Intake	Dirty air filter.	Clean or replace with new.
Low Discharge Pressure	Prolonged excessive use of air.	Decrease amount of air usage, compressor is not large enough for air requirement. See specification chart, page 5.
	Restricted air intake filter.	Clean or replace air intake filter.
	Hole in hose.	Check and replace if required.
Knocking	Low oil level.	Check oil level and maintain at prescribed level.
	Vibration mount nuts loose.	Check all vibration mount nuts and tighten as required.

SERVICE NOTES

ALL
COMPRESSION

OWNER'S
MANUAL

SERVICE

FOR THE
OWNER'S
MANUAL

HOW TO ORDER
STANDARD

Sears

OWNERS MANUAL

SERVICE

**MODEL NOS.
919.176050
919.176110**

HOW TO ORDER REPAIR PARTS

AIR COMPRESSOR

Now that you have purchased your Sears Air Compressor, should a need ever exist for repair parts or service, simply contact any Sears Service Center and most Sears, Roebuck and Co. stores. Be sure to provide all pertinent facts when you call or visit.

The model number of your Sears Air Compressor is 919 _____.

This number can be found on the decal which is located on the front of the tank.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- | | |
|----------------|--------------------|
| • NAME OF ITEM | • PART DESCRIPTION |
| • MODEL NUMBER | • PART NUMBER |

NOTE:

If service or repair parts are required for the motor, supply all motor nameplate information including manufacturers.

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.